

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Original) Article with a layer composite exhibiting a first non-metallic layer and a second metallic layer applied thereon characterised in that the first non-metallic layer contains at least one polymer, that the boundary present between the non-metallic and the metallic layer exhibits a roughness with an  $R_a$  value of maximum 5  $\mu\text{m}$  and that the metallic layer exhibits an adhesive strength of at least 12  $\text{N/mm}^2$  and a standard deviation of the adhesive strength at six different measured value points distributed over the surface of the layer composite of maximum 25 % of the arithmetic mean.
2. (Original) Article according to claim 1 whose surface exhibits a composite material in full or in parts, this composite material exhibiting a first non-metallic layer and a second metallic layer applied thereon characterised in that
  - a) the surface of the article is not chemically pretreated before the application of the metallic layer; and
  - b) the metallic layer is not applied by thermal spraying, CVD, PVD or laser treatment.
3. (Currently Amended) Article according to claim 1 [[or 2]] characterised in that the boundary between the non-metallic and the metallic layer exhibits a roughness with an  $R_z$  value of maximum 35  $\mu\text{m}$ .
4. (Currently Amended) Article according to claim 1 [[, 2 or 3]] characterised in that the polymer has not been selected from polypropylene and/polytetrafluoroethylene.
5. (Currently Amended) Article according to claim 1 ~~one of the preceding claims~~ characterised in that the non-metallic layer contains at least one fibre-reinforced polymer, in particular a polymer reinforced with carbon fibre and the diameter of the fibre is less than 10  $\mu\text{m}$ .

6. (Original) Article with a layer composite exhibiting a first non-metallic layer and a second metallic layer applied thereon, characterised in that the first non-metallic layer contains polypropylene and/or polytetrafluoroethylene, that the boundary present between the non-metallic and the metallic layer exhibits a roughness with an  $R_z$  value of maximum 35  $\mu\text{m}$  and an  $R_a$  value of maximum of 5  $\mu\text{m}$  and that the metallic layer exhibits an adhesive strength of at least 5  $\text{N/mm}^2$  and a standard deviation of the adhesive strength at six different measured value points distributed over the surface of the layer composite of maximum 25 % of the arithmetic mean.

7. (Original) Article with a layer composite exhibiting a first non-metallic layer and a second metallic layer applied thereon, characterised in that the first non-metallic layer contains at least one fibre-reinforced polymer, in particular a polymer reinforced with glass fibre, that the diameter of the fibre is more than 10  $\mu\text{m}$ , that the boundary present between the non-metallic and metallic layer has a roughness with an  $R_a$  value of maximum 10  $\mu\text{m}$  and that the metallic layer exhibits an adhesive strength of at least 12  $\text{N/mm}^2$  and a standard deviation of the adhesive strength on six different measuring value points distributed over the surface of the layer composite of maximum 25 % of the arithmetic mean.

8. (Original) Article according to claim 7 characterised in that the boundary present between the non-metallic layer and the metallic layer exhibits a roughness with an  $R_z$  value of maximum 100  $\mu\text{m}$ .

9. (Currently Amended) Article according to claim 1 ~~one of the preceding claims~~ characterised in that the first non-metallic layer is the surface of the article.

10. (Currently Amended) Article according to claim 1 ~~one of claims 1 to 8~~ characterised in that the first non-metallic layer is not the surface of the article.

11. (Currently Amended) Article according to claim 1 ~~one of the preceding claims~~ characterised in that the standard deviation of the adhesive strength amounts to maximum 15 %, in particular maximum 10 % of the arithmetic mean.

12. (Currently Amended) Article according to claim 1 ~~one of preceding claims~~ characterised in that the polymer is selected from the group of polyamide, polyethylene, polyvinyl chloride, polystyrene, epoxy resin, polyether ether ketone, polyoxymethylene,

polyformaldehyde, polyacetal, polyurethane, polyether imide, polyphenyl sulphone, polyphenylene sulphide, polyarylamide, polycarbonate and polyimide.

13. (Currently Amended) Article according to claim 1 ~~one of the preceding claims~~ characterised in that the metallic layer is a metal layer, metal alloy or metal dispersion layer deposited without external current.

14. (Currently Amended) Article according to claim 1 ~~one of the preceding claims~~ characterised in that the metal layer deposited without external current is a copper, nickel or gold layer.

15. (Currently Amended) Article according to claim 1 ~~one of the preceding claims~~ characterised in that the metal dispersion layer deposited without external current is a copper, nickel or gold layer with embedded non-metallic particles.

16. (Original) Article according to claim 15 characterised in that the non-metallic particles exhibit a hardness of more than 1,500 HV and are selected from the group of silicon carbide, corundum, diamond and tetraboron carbide.

17. (Currently Amended) Article according to claim 15 [[or 16]] characterised in that the non-metallic particles exhibit friction-reducing properties and are selected from the group of polytetrafluoroethylene, molybdenum sulphide, cubic boron nitride and tin sulphide.

18. (Currently Amended) Article according to claim 1 ~~one of the preceding claims~~ characterised in that, onto the metallic layer deposited without external current, a layer of aluminium, titanium or alloys is applied whose surface is anodically oxidised or ceramics-treated.

19. (Original) Article according to claim 18 characterised in that one or several metallic layers are also arranged between the metallic layer deposited without external current and the layer of aluminium, titanium or their alloys.

20. (Currently Amended) Article according to claim 18 [[or 19]] characterised in that the surface of the article is a ceramic oxide layer of aluminium, titanium or their alloys, which layer is coloured black by foreign ion embedments.

21. (Currently Amended) Process for the production of an article according to claim 1 comprising the following steps:

- i. the surface of the non-metallic layer is not chemically pretreated before applying the metallic layer;
- ii. the surface of the non-metallic layer is microstructured in a first step by a blasting agent;
- iii. the metallic layer is subsequently applied by metal deposition without external current.

22. (Currently Amended) Use of an article according to claim 1 ~~one of claims 1 to 20~~ as roller for the sheet product processing industry (films, paper, textiles, printing), a structural part of turbomolecular pumps (ring for the compressor stage), handle for household equipment (saucepans, lids), components for the aeroplane industry (handle, handrail) and the space industry (sun sails), structural part for the electronics industry (condenser, sonic field condenser, sonic rider, microwave hollow-cored conductor, antenna, antenna housing), structural part for the moveable structural parts of cyclones, wind sifters, structural parts subject to mechanical, thermal and/or chemical stresses for the motor vehicle industry (brake pistons for motor vehicles) or as a mould or component for the injection moulding industry.